INDEX

CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS

Numbers 1-12, 1966

CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS

Numbers 1-12, 1966

(A translation of Khimiya i Tekhnologiya Topliv i Masel)

A

Abaeva, B. T. - 381, 872
Abas-zade, A. K. - 134
Abramov, M. V. - 709
Abyzgil'din, Yu. M. - 693
Adel'son, S. V. - 150
Adibekov, P. G. - 171
Agafonov, A. V. - 292, 381, 680
Agapov, G. I. - 406
Ainshtein, V. G. - 219
Airapetova, É. K. - 403
Akhmedova, A. K. - 171
Akhmetshin, M. I. - 372
Akimov, V. S. - 387
Akopyan, L. A. - 166
Aleinikov, N. A. - 689
Aleksandrov, A. N. - 573
Aleksandrov, I. A. - 336, 448, 855
Alfimova, E. A. - 462
Aliev, S. M. - 377
Alieva, D. A. - 359
Andreev, D. Ya. - 333
Antonishin, V. I. - 92
Aronov, D. M. - 432
Arslanov, A. F. - 420
Aseev, Yu. G. - 629
Ashbel, F. B. - 438
Ashrafov, A. A. - 403, 458
Aver'yanova, Z. P. - 359
Avetisov, A. K. - 171
Avferenok, S. N. - 34
Avrakh, L. M. - 709

B

Babaev, V. I. - 96
Badyshtova, K. M. - 177, 462, 685
Bagirzade, T. M. - 403
Baiburskii, L. A. - 13
Barabash, L. A. - 507
Baranenko, S. E. - 253
Barit, S. Yu. - 515
Barsukov, E. Ya. - 451
Baskakov, A. P. - 529
Bazin, A. P. - 391
Belik, T. M. - 40
Bel'tsov, B. A. - 534
Belyanin, P. N. - 652
Ben'kovskii, V. G. - 23, 539
Berkovskii, M. A. - 336
Bespolov, I. E. - 50, 865
Bezmozgin, É. S. - 27
Bikkulov, A. Z. - 89
Bogdanov, N. F. - 311
Bogomolova, N. F. - 575
Bogoslovskaya, T. M. - 23
Bol'shakov, G. F. - 126, 202
Borodenko, V. A. - 441
Borodulina, G. V. - 545
Botnikov, Ya. A. - 591
Brovko, V. N. - 542
Bruk, Yu. A. - 202
Bugai, E. A. - 372
Bulgakov, V. B. - 539
Burmistrova, M. P. - 34
Bursian, N. R. - 145
Bushueva, E. M. - 50, 865
Butt, O. K. - 529

C

Chekhov, O. S. - 734
Cherkov, Ya. B. - 428
Chernozhukov, N. I. - 104, 320
Chernyak, I. L. - 382
Chernyshev, A. K. - 445
Chertkov, Ya. B. - 126
Chesnokov, A. A. -,177
Chistyakov, B. E. - 689
Churshukov, E. S. - 649, 876

D

Dal', V. I. - 31
Danilov, I. N. - 722
Davydov, B. N. - 111, 406
Dembovskaya, E. A. - 663
Demikhova, N. T. - 597
Demina, A. E. - 545
Denisenko, A. N. - 419, 501
Denisenko, K. K. - 685
Dintses, A. I. - 465, 674
Dol'berg, A. L. - 54, 497
Dorogochinskii, A. Z. - 181, 302
Dubnikova, R. V. - 34
Dunyushkina, L. V. - 840
D'yachenko, A. E. - 372

E

Efimova, L. F. - 492
Efremova, I. V. - 545
Egorova, A. A. - 270
Éigenson, I. S. - 386
Élbert, É. I. - 394
Emel'yanov, M. M. - 86
Éminov, E. A. - 462
Éndeka, E. Yu. - 843
Énglina, G. B. - 126
Ermakov, E. A. - 86
Eroshkin, A. K. - 862

F

Faingol'd, S. I. - 833
Fedorenko, N. P. - 258
Fedorov, V. S. - 1
Fedorovskii, M. L. - 862
Feigin, E. A. - 703
Filina, R. A. - 324
Filippova, N. A. - 726
Finkel'shtein, G. B. - 629
Folimonv, E. I. - 123
Fominykh, L. F. - 387
Frankfurt, Ya. M. - 868
Frid, E. B. - 559, 819
Frid, M. N. - 559, 819
Fryazinov, V. V. - 386
Fuks, I. G. - 104, 320, 732

G

Galeev, A. F. - 234
Galiakbarov, M. F. - 629
Galich, P. N. - 17
Gal'perin, L. G. - 529
Gankin, V. Ya. - 9
Gankin, V. Yu. - 288, 445, 677

Gel'ms, I. E. - 406
Gel'perin, N. I. - 219
Gerasicheva, Z. V. - 591
Gimaev, R. N. - 693
Glebovskaya, E. A. - 126
Gol'dberg, L. Z. - 264
Gol'dshtein, D. L. - 462
Golovanova, L. P. - 451
Golubenkova, N. S. - 381
Goncharov, S. V. - 441
Gonor, A. A. - 198
Gonsales, A. - 81, 365
Gordash, Yu. T. - 534
Gordina, N. Ya. - 228
Gorechenkov, V. G. - 448
Goshko, N. S. - 107, 563
Gracheva, T. S. - 453
Grebenshchikov, V. P. - 123
Grekova, A. M. - 114
Grigor'ev, M. A. - 423
Grinenko, B. S. - 92
Grishin, A. P. - 20
Gubenko, I. B. - 634, 845
Gureev, A. A. - 438, 876
Gurevich, B. E. - 27
Gurevich, I. L. - 241, 843
Gurina, E. N. - 872
Gur'yanov, A. I. - 234
Guseinov, K. D. - 134
Guseinov, N. I. - 377
Guseva, A. N. - 728
Guttsait, Z. I. - 190

I

Ibragimov, F. Kh. - 387
Ignatov, V. M. - 428
Igonin, P. G. - 311
Inozemtseva, E. E. - 166
Ioakimis, É. G. - 34
Ishchuk, L. P. - 563
Ishchuk, Yu. L. - 107, 563
Ismailov, R. G. - 377
Ivankina, É. B. - 177

K

Kalantar, N. G. - 840
Kaplan, S. Z. - 391, 492
Karaibog, E. V. - 402
Karavaev, N. M. - 81, 365
Kartinin, B. N. - 320
Katsobashvili, Ya. R. - 394, 453
Kazanskii, V. L. - 685
Kaz'min, G. I. - 141, 880
Kel'dyushev, F. A. - 209
Khabibulina, R. K. - 324
Khachaturova, D. A. - 13, 426
Khairulin, A. Kh. - 477
Khamitova, R. G. - 253
Khasmamedov, F. I. - 643
Khavkin, V. A. - 292, 829
Khmelevskii, A. F. - 709
Kichkin, G. I. - 272, 569
Klimov, K. I. - 569, 717
Klinov, B. M. - 709
Kobzova, R. I. - 59, 270, 435
Kolesnikov, I. M. - 665
Kollerova, E. V. - 588
Komarov, B. I. - 205
Kondrat'ev, I. V. - 258
Kondratov, V. K. - 40
Konyukhova, M. V. - 177
Kopysitskii, T. I. - 171
Korobov, V. V. - 307
Koroleva, N. M. - 659
Kosolapova, A. P. - 20
Kosov, B. E. - 486
Kostrin, K. V. - 439
Kostyleva, I. V. - 610
Kotova, A. V. - 539
Kotova, G. G. - 62
Kovalev, L. V. - 245
Kozik, B. L. - 386
Kozlov, M. V. - 345, 597
Kozorezov, Yu. I. - 71
Krein, S. É. - 54, 276, 504
Krichko, A. A. - 386
Krinkin, D. P. - 9, 228, 445
Kruglov, É. A. - 223
Kudryavtseva, N. A. - 281, 507
Kuliev, R. Sh. - 403, 458
Kupriyanova, L. A. - 17
Kurganov, V. M. - 81, 365
Kurlin, M. V. - 868
Kut'kov, A. A. - 250
Kutsevalov, V. V. - 402
Kuz'mina, G. N. - 62, 281, 659
Kuznetsov, V. A. - 534

L

Lapin, V. P. - 118
Laz'yan, N. G. - 462
Le, B. - 253
Ledyashova, G. E. - 181, 303
Leifman, I. E. - 728
Leitman, Yu. S. - 171
Levin, B. D. - 166
Levin, I. S. - 40
Levina, I. L. - 573
Levina, M. I. - 610
Levinson, S. Z. - 586
Levinter, M. E. - 154, 406, 629
Levkina, N. K. - 59
Lezin, Yu. S. - 526
Lipshtein, R. A. - 350
Lisovskaya, M. A. - 276
Ljalo,pv. F. G. - 840
Lopatskii, A. Yu. - 442
Lulova, N. I. - 281, 465, 507, 659
L'vov, S. V. - 362
Lyandres, S. É. - 166
Lynkin, É. L. - 709

M

Magaril, R. Z. - 602
Makheeva, E. D. - 394
Makhnenko, G. Kh. - 394
Makovetskii, P. S. - 468
Maksimenko, M. Z. - 234
Maksimets, Yu. K. - 399
Malyshev, Yu. M. - 849
Mamedaliev, G. M. - 377
Mamina, S. R. - 386
Manovyan, A. K. - 13, 426
Manshilin, V. V. - 47, 114
Marinchenko, N. I. - 354
Martynov, V. M. - 315
Martynova, N. V. - 465, 674
Martyshko, N. M. - 17
Marushkin, B. K. - 606
Maslyanskii, G. N. - 145
Matishev, V. A. - 397
Matveev, M. S. - 329
Medvedev, S. P. - 205
Medvedeva, M. I. - 406, 629
Mikhailov, I. A. - 586
Milanchev, A. S. - 481
Minibaev, A. V. - 453
Min'kovskii, Ya. I. - 441
Mirgaleev, I. G. - 665
Mirknovskaya, A. A. - 689
Mironov, A. A. - 372
Mirzoeva, E. A. - 462
Mitropol'skaya, V. A. - 231, 669
Mochalova, O. S. - 833
Moiseikov, S. F. - 410
Molokanov, Yu. K. - 193
Monko, Ya. D. - 703
Morozova, I. A. - 118
Mozzhukin, A. S. - 231, 669
Musaev, G. T. - 403
Mushchenko, D. V. - 837
Muzychenko, V. P. - 66

N

Nakonechnaya, M. B. - 107, 563
Nauruzov, M. Kh. - 23
Nedoshivin, Yu. N. - 629
Nemets, L. L. - 114
Nesterov, P. N. - 437
Nikiforov, G. N. - 634

Nikitina, S. A. - 833
Nikolaeva, V. G. - 205
Nikonorov, E. M. - 465, 674
Nikonov, V. I. - 150
Nikulik, V. I. - 372
Nomkin, D. I. - 377
Novikova, E. F. - 253

O

Obleukova, O. A. - 657
Ocheretyanyi, I. T. - 129
Okinshevich, N. A. - 381, 872
Oparina, E. M. - 59, 270, 435
Oprichko, A. A. - 345, 597
Orekhov, A. A. - 345, 597
Orochko, D. I. - 159
Osipov, L. I. - 829
Osipov, L. N. - 292, 680
Osipov, V. M. - 210
Osipova, E. V. - 591
Ostankova, N. N. - 391
Ostroushchenko, M. S. - 205
Ostrovskii, N. B. - 432

P

Panchenkov, G. M. - 154, 406, 629
Panyagin, N. B. - 75
Papok, K. K. - 6, 129, 276, 488
Pashenko, M. A. - 311
Paushkin, Ya. M. - 665
Perevesinskii, I. F. - 545
Perezhingina, I. Ya. - 680
Pestrikov, S. V. - 386
Petrov, A. A. - 689
Petrova, N. S. - 849
Pimenov, A. M. - 423
Pinkovskii, Ya. I. - 697
Pisarchik, A. I. - 462
Pivovarov, A. T. - 862
Pivovarov, A. T. - 441
Planovskii, A. N. - 166
Platonov, V. M. - 703
Poddubnyi, V. N. - 54
Podrovskii, V. N. - 307
Polyakova, A. A. - 381
Polyakova, L. A. - 501
Polyakova, N V. - 264
Poplavskaya, A. V. - 548
Popov, V. V. - 422
Popov, Yu. V. - 210
Popova, E. A. - 504
Popova, L. A. - 465, 674
Popova, L. M. - 422
Pototskaya, M. I. - 241
Prokof'ev, B. K. - 610
Prokopchuk, V. A. - 107, 563
Prosin, P. I. - 550
Puchkov, N. G. - 654
Putilova, Z. D. - 386
Pyl'nikov, V. I. - 610

R

Rabinovich, É. I. - 406
Rachinskii, F. Yu. - 202
Rakintseva, V. E. - 410
Rasnyanskaya, A. Ya. - 66
Ravikovich, A. M. - 214
Rebeza, M. I. - 324
Reznikov, V. D. - 659
Rofe, A. I. - 639
Roganin, F. D. - 138, 616
Rogov, S. P. - 292, 680
Romanova, T. G. - 47
Ronzhina, N. F. - 438
Rozenberg, S. G. - 432
Rozhkov, I. V. - 649, 876
Rubekin, N. F. - 412
Rubinshtein, I. A. - 504, 649
Rubtsova, Z. S. - 100, 717
Rudakova, L. F. - 717
Rudakova, V. I. - 610
Rudakovskaya, T. S. - 231
Rudenskaya, I. M. - 634, 845
Rudovskii, D. M. - 9, 228, 445, 677
Rusinov, I. E. - 96
Ryabykh, P. M. - 300
Rybakov, N. P. - 559
Rysakov, M. V. - 680

S

Samedova, F. I. - 403, 458
Samoilov, N. A. - 387
Sanin, P. I. - 62
Savokhin, V. G. - 588
Sedelkin, V. M. - 342
Selivanov, T. I. - 372
Semenov, B. S. - 581
Semenova, E. S. - 292
Semenova, T. G. - 548
Sentyurikhina, L. N. - 100, 435, 717
Serafimov, L. A. - 231, 669
Serdyuk, D. F. - 468
Shabalin, I. I. - 223
Shal'kovskii, N. G. - 520
Shalygin, V. A. - 824
Shaltyko, G. E. - 27
Shapchenko, N. I. - 31
Shcherbakov, V. V. - 448
Shcherbina, E. I. - 843
Shchipanova, A. I. - 507
Shchurin, R. M. - 266
Shekhter, Yu. N. - 54, 185
Sher, V. V. - 62
Shimonaev, G. S. - 510
Shirokova, G. B. - 876
Shipikin, V. V. - 145
Shor, G. I. - 118
Shteinman, V. I. - 336
Shtern, E. N. - 350
Shul'gina, E. M. - 171
Shutalev, B. I. - 209
Shmeleva, M. A. - 223
Shmerkovich, V. M. - 515
Shmurak, M. D. - 669
Sidorov, R. I. - 501
Sinitsyn, V. V. - 107, 563
Siryuk, A. G. - 381, 726
Skoblo, A. I. - 336
Skop, S. L. - 573
Skorikov, I. E. - 712
Sleptsov, Yu. S. - 311
Slobodin, Ya. M. - 198, 432
Slobodyanik, I. P. - 43, 555
Smirnov, M. S. - 129
Sobolev, E. P. - 438, 649
Sokolov, A. I. - 209
Sokov, Yu. F. - 386
Solodkov, V. K. - 410
Solodova, N. I. - 96
Solomakha, G. P. - 734
Solonetskii, V. G. - 309
Sorkin, Ya. G. - 416, 515
Sorokina, T. S. - 171
Spirin, A. A. - 868
Spirina, I. F. - 391
Starikova, A. I. - 358
Stekhun, A. I. - 358
Step, N. Ya. - 417
Stepanov, R. G. - 391
Stupishin, Yu. V. - 132
Sumanov, V. T. - 441
Sverchinskii, B. S. - 193
Svitkin, V. V. - 311
Syunyaev, Z. I. - 473, 693

T

Talisman, L. V. - 391
Tanatarov, M. A. - 154
Tarasov, A. I. - 66, 281, 507
Tarelkin, L. P. - 708
Tikhova, A. P. - 66
Tishchenko, V. E. - 420
Titov, A. A. - 824
Todes, O. M. - 526
Tomson, R. M. - 833
Trifel, A. G. - 9, 228, 445, 677

Tsygankov, V. S. - 559
Tsyskovskii, V. K. - 610
Tubyanskaya, G. S. - 59, 270, 435
Turov, Yu. Ya. - 285

U

Urmancheev, F. A. - 253

V

Vaisberg, K. M. - 223
Vakurov, P. S. - 107
Valisheva, N. Kh. - 539
Vainshtok, V. - 54, 104, 320
Varonina, T. B. - 468
Varshavskii, A. N. - 264
Vasanova, L. K. - 297
Vasilenko, V. P. - 47
Vel'tsov, B. A. - 333
Vilenkin, A. V. - 575
Vipper, A. B. - 276
Voloshin, N. D. - 473
Volotushkina, E. V. - 205
Vol'pova, E. G. - 520
Vorob'eva, E. I. - 548
Voronin, A. S. - 709

Y

Yakusheva, N. V. - 382
Yastrebov, G. I. - 462
Yatsenko, A. V. - 17

Z

Zabryanskii, E. I. - 123, 438
Zainetdinov, M. A. - 840
Zaitsev, V. A. - 270
Zakharov, G. V. - 488, 510
Zakirov, R. Kh. - 477
Zarubin, A. P. - 488
Zaslavskii, Yu. S. - 394
Zavidov, V. I. - 31
Zeinalov, F. I. - 171
Zelenskaya, R. G. - 423
Zel'venskii, Ya. D. - 824
Zhadanovskii, N. B. - 177, 241, 462, 843
Zharkov, B. B. - 145
Zhuze, T. P. - 620
Zimin, A. F. - 849
Zimina, K. I. - 62, 381
Zinov'eva, A. P. - 159, 815
Zrelov, V. N. - 354
Zuseva, B. S. - 276
Zybin, N. S. - 559

TABLE OF CONTENTS

CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS

Numbers 1-12, 1966

(A translation of Khimiya i Tekhnologiya Topliv i Masel)

Number 1 January, 1966

The Need for Greater Utilization of New Opportunities for Further Upgrading the Oil Refining and Petrochemical Industry of the USSR—V. S. Fedorov	1	1
The Need for a More Progressive System for Evaluation of the Operating Properties of Fuels and Oils—K. K. Papok	6	7
PETROLEUM AND GAS PROCESSING		
Carbonylation of the C_5-C_6 Olefins in the Gas Phase—V. Ya. Gankin, D. P. Krinkin, D. M. Rudovskii, and A. G. Trifel	9	10
Dearomatization of Gasoline-Solvents with Synthetic Zeolites—A. K. Manovyan, L. A. Baiburskii, and D. A. Khachaturova	13	13
Distribution of Sulfur Compounds in the Process of Separating Normal Alkanes for Benzines with CaA Zeolites—P. N. Galich, L. A. Kupriyanova, A. V. Yatsenko, and N. M. Martyshko	17	17
Solubility of Paraffin from Ozeksuatsk Oil in Solvent Pairs—A. P. Grishin and A. P. Kosolapova	20	19
Density, Surface Tension and Refractive Index of Aromatic Hydrocarbons at Low Temperatures —V. G. Ben'kovskii, T. M. Bogoslovskaya, and M. Kh. Nauruzov	23	22
Investigation of the Physicochemical and Preservative Properties of the Products from the Pyrolysis of Shale Tar and Petroleum—G. E. Shaltyko, É. S. Bezmozgin, and B. E. Gurevich	27	26
Degree of Extraction of Various Hydrocarbon Groups with Furfural from Gas Oil Produced by Coking—V. I. Zavidov, N. I. Shapchenko, and V. I. Dal'	31	29
Effect of the Neutralized Black Contact NChK on the Biochemical Purification of Waste Water from Oil Refineries—É. G. Ioakimis, R. V. Dubnikova, M. P. Burmistrova, and S. N. Avferenok	34	31
Rapid Method of Determining the Softening Point of Oil Bitumens—I. S. Levin, T. M. Belik, and V. K. Kondratov	40	35
PETROLEUM REFINERY APPARATUS		
Tests on a Ring-Shaped Jet Plate—I. P. Slobodyanik	43	38
Study on the Flow of Fluidized Finely Dispersed Catalyst Near the Inlet of the Standpipe of a Pneumatic Transporter—V. P. Vasilenko, V. V. Manshilin, and T. G. Romanova	47	42
SERVICE PROPERTIES OF FUELS AND OILS		
Effect of Aromatic Hydrocarbon Structure on Jet Fuel Thermal Stability—E. M. Bushueva and I. E. Bespolov	50	45
Production of Corrosion Inhibitors Based on Nitrated Petrolatums—A. L. Dol'berg, V. V. Vainshtok, S. É. Krein, Yu. N. Shekhter, and V. N. Poddubnyi	54	48
Stabilization of Polyethylsiloxane Fluids by Additives—R. I. Kobzova, G. S. Tubyanskaya, E. M. Oparina, and N. K. Levkina	59	52

	Engl.	Russ.
FUEL AND OIL QUALITY EVALUATION METHODS		
Determination and Characterization of Additives of the Zinc Dialkyldithiophosphate Type by Infrared Adsorption Spectra—K. I. Zimina, G. G. Kotova, V. V. Sher, G. N. Kuz'mina, and P. I. Sanin	62	54
Chromatographic Determination of Hydrocarbon Composition of 40-140°C Fraction of Olefins from Thermal Cracking of Wax—A. Ya. Rasnyanskaya, A. I. Tarasov, A. P. Tikhova, and V. P. Muzychenko	66	58
INFORMATION		
Refining of Gas-Condensates in Foreign Countries—Yu. I. Kozorezov	71	61
Oil Refinery Expansion in Foreign Countries—N. B. Panyagin	75	64

Number 2 February, 1966

	Engl.	Russ.
From the Editors	79	1
PETROLEUM AND GAS PROCESSING		
Certain Patterns in Movement of the Stream of Catalyst Particles in Industrial Vertical Pneumatic Conveyers—V. M. Kurganov, A. Gonsales, and N. M. Karavaev	81	3
Results of Launching a Plant for Deoiling Sludge in the Perm Oil Refinery—M. M. Emel'yanov and E. A. Ermakov	86	8
Effect of the Structure of the Molecule on the Properties of a Selective Solvent—A. Z. Bikkulov	89	10
Sulfonation of Residual Oils and Utilization of the Oil Sulfonation Product—V. I. Antonishin and B. S. Grinenko	92	13
Method for Improving the Quality of the Fatty Acids in the Oxidation of Paraffin—I. E. Rusinov, V. I. Babaev, and N. I. Solodova	96	17
Solid Lubricant Coating VNII NP-229—L. N. Sentyurikhina and Z. S. Rubtsova	100	20
Effect of Fillers on the Thickening Capacity of Lithium Soaps—I. G. Fuks, V. V. Vainshtok, and N. I. Chernozhukov	104	24
Complex Calcium Greases Based on Synthetic Fatty Acids—Yu. L. Ishchuk, V. V. Sinitsyn, N. S. Goshko, M. B. Nakonechnaya, V. A. Prokopchuk, and P. S. Vakurov	107	27
ECONOMICS		
Calculation of the Expenses of Catalyst Manufacture in Oil Refining—B. N. Davydov	111	31
PETROLEUM REFINERY EQUIPMENT		
Regeneration of Aluminum Silicate Catalysts in a Fluid Bed—A. M. Grekova, L. L. Nemets, and V. V. Manshilin	114	34
SERVICE PROPERTIES OF FUELS AND OILS		
Investigation of Motor Oil Additive Detergency under Electric Field Conditions—G. I. Shor, I. A. Morozova, and V. P. Lapin	118	38
Effect of Supercharging on Ignition Quality of Diesel Fuels—E. I. Zabryanskii, E. I. Folimonov, and V. P. Grebenshchikov	123	44
Structure of Insoluble Portion of Resins from Middle-Distillate Petroleum Fuels—Ya. B. Chertkov, G. F. Bol'shakov, E. A. Glebovskaya, and G. B. Énglina	126	47
Evaluation of Lube Oil Service Properties by the GSM-100 Method—K. K. Papok, M. S. Smirnov, and I. T. Ocheretyanyi	129	49
Effect of Chemical Composition of Petroleum Oils on Weight Change of Rubber Parts—Yu. V. Stupishin	132	52
FUEL AND OIL QUALITY EVALUATION METHODS		
Thermal Conductivity of Saturated Hydrocarbons at High Temperatures and Pressures—A. K. Abas-zade and K. D. Guseinov	134	54
Increase in Weight of Oxidized Wax Charge Due to Addition of Oxygen—F. D. Roganin	138	57

Engl./Russ.

INFORMATION
Industrial Conference on the Results of Investigating Atmospheric and Atmospheric-Vacuum Pipe Still Installations—G. I. Kaz'min 141 63

Number 3 March, 1966

PETROLEUM AND GAS PROCESSING
Regeneration of Platinized Alumina Reforming Catalysts by the Use of Chlorine—G. N. Maslyanskii, N. R. Bursian, V. V. Shipikin and B. B. Zharkov 145 1
Effect of Some Factors on the Dehydrogenation of Isopentane in the Presence of Iodine—S. V. Adel'son and V. I. Nikonov 150 6
The Diffusion Factor in Coke Formation on an Aluminosilicate Catalyst—M. E. Levinter G. M. Panchenkov, and M. A. Tanatarov 154 9
Macrokinetics of Circulatory Dilution of Reagents by Reaction Products—A. P. Zinov'eva and D. I. Orochko 159 14
Mixing of the Gas Phase in a Fluidized Bed—S. É. Lyandres, A. N. Planovskii, L. A. Akopyan, B. D. Levin, and E. E. Inozemtseva 166 21
Selection of Optimum Conditions for Cracking with Catalytic Gas Oil as Recirculate—F. I. Zeinalov, P. G. Adibekov, A. K. Avetisov, A. K. Akhmedova, T. S. Sorokina, E. M. Shul'gina, T. I. Kopysitskii, and Yu. S. Leitman 171 25
Antioxidation Stability of Hydropurified Transformer Oil—A. A. Chesnokov, K. M. Badyshtova, M. V. Konyukhova, É. B. Ivankina, and N. B. Zhadanovskii 177 30
Aqueous Dimethylformamide, a Solvent for Aromatic Hydrocarbons—G. E. Ledyashova and A. Z. Dorogochinskii 181 33
Mechanism of Action of Oil-Soluble Corrosion Inhibitors—Yu. N. Shekhter 185 36

ECONOMICS
Some Problems in Fixing the Prices of Petroleum and Oil Products (Discussion)—Z. I. Guttsait 190 41

PETROLEUM REFINERY EQUIPMENT
Efficiency of Bubbler Plates with Cross-Flow of the Phases in Rectification of Binary Mixtures—Yu. K. Molokanov and B. S. Sverchinskii 193 44
Synergism of Antioxidants in Synthetic Ester Oil—Ya. M. Slobodin and A. A. Gonor 198 48
Additive for Increasing Thermal-Oxidative Stability of Hydrocarbon Fuels—G. F. Bol'shakov, Yu. A. Bruk, and F. Yu. Rachinskii 202 52
High-Temperature Corrosion of Metals in Combustion of Distillate Gas-Turbine Fuels—V. G. Nikolaeva, B. I. Komarov, E. V. Volotushkina, S. P. Medvedev, and M. S. Ostroushchenko 205 54
Effect of Operating Oil Quality on Internal Combustion Engine Life—A. I. Sokolov, B. I. Shutalev, and F. A. Kel'dyushev 209 57

FUEL AND OIL QUALITY EVALUATION METHODS
UAP-64 Spectrosocopic Analyzer for Oil in Paraffin Wax—V. M. Osipov and Yu. V. Popov 210 58

INFORMATION
Rust Inhibitors for Lubricating and Conserving Oils (Patent Review)—A. M. Ravikovich 214 62

Number 4 April, 1966

PETROLEUM AND GAS PROCESSING
Pressure Drop in a Fluid Bed—N. I. Gel'perin and V. G. Ainshtein 219 1
Composition of Bicyclic Aromatic Hydrocarbons in Catalytic Cracking Gas Oil—K. M. Vaisberg, I. I. Shabalin, É. A. Kruglov, and M. A. Shmeleva 223 4

	Engl.	Russ.
Hydroformylation in the Gas Phase—V. Yu. Gankin, N. Ya. Gordina, D. P. Krinkin, D. M. Rudkovskii, and A. G. Trifel'	228	8
Investigation of the Physicochemical Properties of the System Propionaldehyde-n-Propanol-Isobutanol-Water—A. S. Mozzhukin, L. A. Serafimov, V. A. Mitropol'skaya, and T. S. Rudakovskaya	231	11
Hydrodynamics and Mass Transfer in an Extractor with Vibrating Plates—M. Z. Maksimenko, A. F. Galeev, and A. I. Gur'yanov	236	16
Recovery of Triethylene Glycol by Use of a Secondary Solvent—I. L. Gurevich, L. Yu. Zhake, and M. I. Pototskaya	241	20
Fractionation of the Aromatic Part of Oils with Type X Molecular Sieves—L. V. Kovalev	245	23
Lubricity of Higher Fatty Acids—A. A. Kut'kov	250	27
Gas-Condensates from the Lower-Perm and Upper-Carbon Deposits near Shebelino—B. Le, F. A. Urmancheev, R. G. Khamitova, S. E. Baranenko, and E. F. Novikova	253	30
ECONOMICS		
Ways of Raising the Octane Number of Car Gasoline (Discussion)—N. P. Fedorenko and I. V. Kondrat'ev	258	35
Optimum Utilization of Waste Oils (Discussion)—A. N. Varshavskii, L. Z. Gol'dberg, and N. V. Polyakova	264	41
PETROLEUM REFINERY APPARATUS		
Vibrational Combustion in Furnaces with Panel Burners—R. M. Shchurin	266	43
SERVICE PROPERTIES OF FUELS AND OILS		
TsTM [Manganese Tricarbonyl Cyclopentadienyl]—A New, Effective Stabilizer for Silicone Lubricants—R. I. Kobzova, G. S. Tubyanskaya, E. M. Oparina, V. A. Zaitsev, and A. A. Egorova	270	47
Foam Formation in Lubricating Oils—G. I. Kichkin	272	49
Effectiveness of New Foreign (non-Soviet) Motor Oil Additives—A. B. Vipper, S. É. Krein, K. K. Papok, M. A. Lisovskaya, and B. S. Zuseva	276	53
FUEL AND OIL QUALITY EVALUATION METHODS		
Rapid Chromatographic Method for Determination of Hydrogen Sulfide in Gases and Petroleum Crudes—A. V. Kuz'mina, N. A. Kudryavtseva, N. I. Lulova, and A. I. Tarasov	281	57
INFORMATION		
Production and Use of Pyrolysis Acetylene in the USA—Yu. Ya. Turov	285	61

Number 5 May, 1966

The Refining and Petrochemical Industry in the Service of the National Economy	289	1
PETROLEUM AND GAS PROCESSING		
Nickel Catalysts for the Second Stage of Hydrocracking—L. N. Osipov, V. A. Khavkin, E. S. Semenova, A. V. Agafonov, and S. P. Rogov	292	5
Microeruptions of Gas in a Fluid Bed—L. K. Vasanova	297	9
Temperature of the Feed at the Inlet of a Rectification Column—P. M. Ryabykh	300	11
Mono- and Dimethylformamides, Solvents for Low Molecular Weight Aromatic Hydrocarbons—G. E. Ledyashova and A. Z. Dorogochinskii	303	13
The Thermodynamics of Certain Hydrolysis Reactions of Organosulfur Compounds Present in Liquid Fuel—V. N. Pokrovskii and V. V. Korobov	307	16
Separation of Phenol from a Fraction Which Contains Water and Low-Boiling Components —V. G. Solonetskii	309	18
Optimum Fractional Composition of Paraffins for Oxidation to Fatty Acids —P. G. Igonin, N. F. Bogdanov, V. V. Svitkin, M. A. Pashenko, and Yu. S. Sleptsov	311	19

Engl./Russ.

Kinetics of Isothermal Evaporation of Lubricants from Thin Layers in Static Conditions —V. M. Martynov 315 23
The Effect of Surfactants on the Structure and Strength of Lithium Greases with Fillers —I. G. Fuks, V. V. Vainshtok, B. N. Kartinin, and N. I. Chernozhukov 320 26
Dehydration and Desalting of Stavropol'krai Oils —R. K. Khabibulina, R. A. Filina, and M. I. Rebeza 324 30
Biological Purification of Waste Water from Oil Refineries—M. S. Matveev 329 34

ECONOMICS
Criterion of Optimum Performance of the Platforming Process—D. Ya. Andreev and B. A. Vel'tsov 333 38

PETROLEUM REFINERY EQUIPMENT
Construction of Countercurrent Apparatus with Parallel Motion of the Two Phases in a Contact Stage—M. A. Berkovskii, A. I. Skoblo, I. A. Aleksandrov, and V. I. Shteinman 336 41
Results of a Study on the Distribution of the Thermal Loads in a Tubular Furnace —V. M. Sedelkin 342 47
Automatic Control System of Pneumatic Catalyst Transport Studied on an Electronic ÉMU-10 Model—M. V. Kozlov, A. A. Orekhov, and A. A. Oprichko 345 50

SERVICE PROPERTIES OF FUELS AND OILS
Additives for Decreasing Dielectric Losses in Insulating Oils—R. A. Lipshtein and E. N. Shtern ... 350 54
Effect of Jet Fuel Oxidation Products on the Formation of Microcontaminants —V. N. Zrelov and N. I. Marinchenko 354 57
Avoid Contamination of Jet Fuels during Shipment by Rail—A. I. Stekhun and A. I. Starikova 358 61

FUEL AND OIL QUALITY EVALUATION METHODS
Cryoscopic Method for Quantitative Determination of Benzoic Acid Content in Mixed Phthalic Acids—D. A. Alieva and Z. P. Aver'yanova 359 62

BIBLIOGRAPHY
V. N. Stabnikov. Rectification Apparatus—Reviewed by S. V. L'vov 362 64

Number 6 June, 1966

PETROLEUM AND GAS PROCESSING
Determination of the Limiting Discharge Rate of a Granulated Catalyst —V. M. Kurganov, A. Gonsales, and N. M. Karavaev 365 1
Experience in Producing Gasoline and Diesel Fuel from High-Sulfur Crudes —E. A. Bugai, T. I. Selivanov, M. I. Akhmetshin, A. E. D'yachenko, A. A. Mironov, and V. I. Nikulik 372 7
Preparation of Trimethylbenzenes —S. M. Aliev, R. G. Ismailov, G. M. Mamedaliev, and N. I. Guseinov 377 0
Content of the Various Structures and Groups in Oil Used as Starting Material in the Manufacture of Active Carbon Blacks — B. T. Abaeva, N. A. Okinshevich, A. V. Agafonov, N. S. Golubenkova, K. I. Zimina, A. A. Polyakova, and A. G. Siryuk.. 381 13
Desorption of Hydrocarbons from Synthetic Zeolites with Superheated Steam —L. F. Fominykh, V. S. Akimov, N. A. Samoilov, and F. Kh. Ibragimov 387 18
Effect of Low Doses of γ Rays and Neutrons on the Aging of Oils — A. P. Bazin, S. Z. Kaplan and I. F. Spirina 391 21
Radiation-Resistant Plastic Lubricants Based on Sodium Terephthalamide —E. D. Makheeva, G. Kh. Makhnenko, and Yu. S. Zaslavskii 394 24

	Engl.	Russ.
Fire Precautions in the General Plan of an Oil Refinery – Yu. K. Maksimets	399	28
Furfural Extraction of Transformer Distillate from Volgograd Crudes – V. V. Kutsevalov and E. V. Karaibog	402	31
ECONOMICS		
The Use of Natural Cracking Catalysts – I. E. Gel'ms, B. N. Davydov, and É. I. Rabinovich.	406	34
REFINERY APPARATUS		
The Optimum Conditions for Catalytic Reforming – N. F. Rubekin	412	40
High-Temperature Method for Coke Burn-Out in Tubular Pyrolysis Furnaces – N. Ya. Step	417	44
Extraction of Additives by Centrifugal Oil Cleaners – A. N. Denisenko	419	45
Engine Evaluation of Automotive Oil Service Properties – M. A. Grigor'ev, A. M. Pimenov, and R. G. Zelenskaya	423	48
Comparative Evaluation of the Effect of Jet Fuel Additives – Ya. B. Chertkov and V. M. Ignatov	428	53
Methods for Evaluating Fuel and Oil Service Properties – N. B. Ostrovskii and D. M. Aronov	432	56
Coulometric Method for Phenol Determination in Control of Phenol Alkylation by α-Olefins in the Presence of Benzenesulfonic Acid – V. A. Kuznetsov and Yu. T. Gordash	434	58
Determination of Interface Region in Extraction Process by Indirect Measurements – P. M. Nesterov	437	61
I. M. Kardash and O. T. Karagedova. Cutting Down Reagent Costs in Oil Refining –Reviewed by K. V. Kostrin.	439	63

Number 7 July, 1966

	Engl.	Russ.
PETROLEUM AND GAS PROCESSING		
Catalytic Cracking Studied in a 43-102 Unit–A. T. Pivovarov, Ya. I. Min'kovskii, V. T. Sumanov, V. A. Borodenko, and S. V. Goncharov.	441	1
Technological Scheme for Oxo-Synthesis Involving Separation of Product and Catalyst by Vaporization at High Pressure–V. Yu. Gankin, D. P. Krinkin, D. M. Rudkovskii, and A. G. Trifel'	445	5
Change in Efficiency of Mass Exchange in Hydrocarbon Gas Absorption Processes–I. A. Aleksandrov, V. G. Gorechenkov, and V. V. Shcherbakov	448	7
Isomerization of Low-Melting Paraffin in the Presence of an Industrial Platinum Catalyst –Ya. R. Katsobashvili, A. V. Minibaev, and T. S. Gracheva	453	12
Two-Stage Deasphaltization of Concentrate from a Mixture of Baku Paraffin Petroleums –R. Sh. Kuliev, F. I. Samedova, and A. A. Ashrafov.	458	15
Hydrofining of Phenol-Treated Turbine Oil–D. L. Gol'dshtein, K. M. Badyshtova, G. I. Yastrebov, N. B. Zhadanovskii, E. A. Alfimova, A. I. Pisarchik, E. A. Éminov, N. G. Laz'yan, and E. A. Mirzoeva	462	18
Effect of Small Amounts of 1,3-Butadiene on the Molecular Weight of Polyisobutylene –N. V. Martynova, A. I. Dintses, N. I. Lulova, E. M. Nikonorov, and L. A. Popova	465	21
Naphthene Hydrocarbons of the Benzine and Kerosene-Gasoil Fraction of Petroleum –P. S. Makovetskii, D. F. Serdyuk, and T. B. Varonina	468	23
Mechanism of Coking and the Calcination of Petroleum Coke–Z. I. Syunyaev and N. D. Voloshin.	473	27
ECONOMICS		
Efficiency in the Use of Basic Funds in the Petroleum-Refining Industry of the Bashkir ASSR –R. Kh. Zakirov and A. Kh. Khairullin	477	30

Engl./Russ.

PETROLEUM REFINERY EQUIPMENT

Relation between the Local Thermal Stresses and the Constants of Furnaces—A. S. Milanchev 481 34
Automatic Explosive-Proof Run-off Tank—B. E. Kosov 486 39

SERVICE PROPERTIES OF FUELS AND OILS

Evaluation of Exhaustion of Detergent and Antioxidant Additives in an Engine—K. K. Papok, A. P. Zarubin, and G. V. Zakharov 488 40
Effect of Polymethacrylate on Oxidation of Naphthenic-Paraffinic Hydrocarbons—S. Z. Kaplan and L. F. Efimova 492 43
Determination of Nitrogen in Nitrated Petroleum Products—A. L. Dol'berg. 497 47

FUEL AND OIL QUALITY EVALUATION METHODS

Determination of Aromatic Hydrocarbons in Petroleum Fractions by Gas-Liquid Chromatography—R. I. Sidorov, A. N. Denisenko, and L. A. Polyakova 501 51
Calculation Formulas for Determining Ring Composition of Organic Sulfur Compounds Occurring in Petroleum Fractions—S. É. Krein, I. A. Rubinshtein, and E. A. Popova 504 53
Analysis of Cresols and Xylenols by Gas-Liquid Chromatography—N. A. Kudryavtseva, A. I. Tarasov, N. I. Lulova, L. A. Barabash, and A. I. Shchipanova 507 56
Radiospectrometric Method for Quality Control of Lube Oil Additives—G. S. Shimonaev and G. V. Zakharov. 510 59

Number 8 August, 1966

PETROLEUM AND GAS PROCESSING

Incorporation of Air-Cooled Condensers in Refineries and Petrochemical Plants—Ya. G. Sorking, S. Yu. Barit, and V. M. Shmerkovich 515 1
Generalization of the Experiences in the Operation of Industrial Apparatuses for the Sulfuric Acid Alkylation of Isobutane with Butylenes—E. G. Vol'pova and N. G. Shal'kovskii. 520 6
Dynamics of Continuous Adsorption and Desorption in a Fluidized Bed—O. M. Todes and Yu. S. Lezin 526 11
Critical Resistance and Critical Fluidization Velocity of Finely Divided Material in Cylindro-Conical Apparatus—A. P. Baskakov, L. G. Gal'perin, and O. K. Butt... 529 14
Mathematical Representation of the Platforming Process—B. A. Bel'tsov 534 18
Destruction of Vanadium Metalloporphyrin Complexes in the Action of γ Radiation on Petroleum or Petroleum Products—A. V. Kotova, V. G. Ben'kovskii, V. B. Bulgakov, and N. Kh. Valisheva 539 22
Experience on the Starting-Up and Exploitation of a Unit for Continuous Acid-Alkali Purification of Oils—V. N. Brovko. 542 25
Rectification of Spent Sulfuric Acid and the Recovery of Acid and Oil from Acidic Polymers—I. V. Efremova, G. V. Borodulina, I. F. Perevesinskii, and A. E. Demina. 545 27
Production of Paraffin for the Food Industry from Ozeksuatskii Petroleum—T. G. Semenova, A. V. Poplavskaya, and E. I. Vorob'eva. 548 30

ECONOMICS

Change-Over of the Moscow Oil Refinery to a New System of Planning and Economic Stimulation—P. I. Prosin. 550 31

PETROLEUM REFINERY EQUIPMENT

Study of the Hydrodynamics and Mass Transfer on a Tangential Plate—I. P. Slobodyanik 555 36
Automatic Control of Pyrolysis Furnaces—N. S. Zybin, M. N. Frid, N. P. Rybakov, E. B. Frid, and V. S. Tsygankov 559 39

Engl./Russ.

SERVICE PROPERTIES OF FUELS AND OILS

Optimum Raw Material for Production of Synthetic Solidols—Yu. L. Ishchuk, V. V. Sinitsyn, M. B. Nakonechnaya, N. S. Goshko, V. A. Prokopchuk, and L. P. Ishchuk 563 43

Breakdown of Polyisobutene during Operation of Thickened Oils in a Gearbox —G. L Kichkin and K. L Klimov 569 49

FUEL AND OIL QUALITY EVALUATION METHODS

Preparation of High-Purity Benzene by Molecular Distillation—A. N. Aleksandrov, L L. Levina, and S. L. Skop. 573 53

INFORMATION

Foreign Detergents for Motor Oils—A. V. Vilenkin and N. F. Bogomolova 575 55

Oil Refining and Petrochemical Industry in Japan—B. S. Semenov 580 59

Production of Paraffins—S. Z. Levinson and L A. Mikhailov 585 62

Conference on Effluent Purification—E. V. Kollerova and V. G. Savokhin. 587 63

ERRATA 589

Number 9 September, 1966

PETROLEUM AND GAS PROCESSING

Thermal Cracking of Paraffins to Obtain α-Olefins—Z. V. Gerasicheva, Ya. A. Botnikov, and E. V. Osipova 591 1

Improvement of the Regenerator Capacity and the Coefficient of Spontaneous Adjustment by Bypassing Gasses —M. V. Kozlov, A. A. Oprishko, A. A. Orekhov, and N. T. Demikhova . 597 7

Mechanism of Retardation of Thermal Cracking of Hydrocarbons—R. Z. Magaril. 602 11

Calculating the Absorption of Hydrocarbon Gases—B. K. Marushkin 606 14

Synthesis of Dicarboxylic Acids by Continuous Oxidation of Paraffin Hydrocarbons with Air under Pressure—V. K. Tsyskovskii, M. I. Levina, E. K. Prokof'ev, I. V. Kostyleva, V. I. Rudakova, and V. I. Pyl'nikov 610 18

Dependence of Heat Evolved on Extent and Selectivity of Oxidation of Paraffins to Fatty Acids —F. D. Roganin 616 23

New Method of Deasphalting Petroleum Residue—T. P. Zhuze 620 25

Mechanism of Coke Formation in the Cracking of Component Groups in Petroleum Residues —M. E. Levinter, M. I. Medvedeva, G. M. Panchenkov, Yu. G. Aseev, Yu. N. Nedoshivin, G. B. Finkel'shtein, and M. F. Galiakbarov 628 31

Conditions for Obtaining Road Asphalts from Deasphaltization Asphalts—I. M. Rudenskaya, I. B. Gubenko, and G. N. Nikiforov 633 36

Return from Funds Invested, and the Productivity of Labor at Petroleum Refining Plants as a Function of the Size of the Plants and the Quality of the Raw Materials—A. I. Rofe . . . 638 41

PETROLEUM REFINING EQUIPMENT

Control of Tubular Two-Compartment Furnaces—F. I. Khasmamedov 642 44

SERVICE PROPERTIES OF FUELS AND OILS

Corrosivity of Sulfur-Bearing Diesel Fuels—E. P. Sobolev, E. S. Churshukov, I. V. Rozhkov, and I. A. Rubinshtein 648 49

Effect of a Centrifugal Field on the Physicomechanical Properties of AMG-10 Oil—P. N. Belyanin. 651 51

Rational System of Evaluating Fuel and Oil Service Properties—N. G. Puchkov and V. D. Reznikov. 653 52

Evaluation of Fuel and Oil Service Properties—O. A. Obleukhova 656 55

Engl./Russ.

FUEL AND OIL QUALITY EVALUATION METHODS

Properties of Solid Carriers for Gas Chromatography—N. I. Lulova, A. V. Kuz'mina, and N. M. Koroleva 658 56

Determination of Monocyclic and Bicyclic Aromatic Hydrocarbons in the Presence of Paraffinic Hydrocarbons in a Kerosine Fraction by Means of Gas-Liquid Chromatography—E. A. Dembovskaya 662 60

Number 10 October, 1966

PETROLEUM AND GAS PROCESSING

Alkylation of Benzene with Propylene on an Aluminosilicate Catalyst, Promoted by Boron Trifluoride—I. M. Kolesnikov, I. G. Mirgaleev, and Ya. M. Paushkin 665 1

Fractionation of the Mixture of Products from Oxo Synthesis of Propionaldehyde —A. S. Mozzhukhin, L. A. Serafimov, V. A. Mitropol'skaya, and M. D. Shmurak 669 5

Use of Aluminum Chloride in Solid Form or in Solution in Polymerization of a Butane-Butylene Fraction—N. V. Martynova, A. I. Dintses, E. M. Nikonorov, and L. A. Popova 674 10

Practical Schemes of Oxosynthesis—V. Yu. Gankin, D. M. Rudkovskii, and A. G. Trifel' 677 12

Study of Patterns in the Process of Hydrocracking Sulfurous Heavy Distillate—I. Ya. Perezhigina, A. V. Agafonov, M. V. Rysakov, L. N. Osipov, and S. P. Rogov 680 15

Hydrocracking of Oil Petrolatum Hydrocarbons—V. L. Kazanskii, K. M. Badyshtova, and K. K. Denisenko 685 19

Sulfonates from High Molecular Weight Aromatic Fractions from Romashkino Petroleum —B. E. Chistyakov, N. A. Aleinikov, A. A. Petrov, and A. A. Mirknovskaya 689 22

Influence of the Quality of the Charging Stock and Coking Method on the Process of Desulfurizing Petroleum Cokes—Z. I. Syunyaev, Yu. M. Abyzgil'din, and R. N. Gimaev . 693 26

Organization of a Common-Sense Process for Dehydrating and Desalting Petroleums before Refining —Ya. I. Pinkovskii 697 30

Proper Criterion to Use for Optimum Operation of a Pyrolysis Furnace—Ya. D. Monko, V. M. Platonov, and E. A. Feigin 703 35

PETROLEUM REFINERY APPARATUS

Experience Gained at the Novo-Gor'kov Refinery from Reducing the Reactor Wall Temperatures in Catalytic Reforming Equipment—L. P. Tarelkin 708 39

Drying Reactor Linings with an Independent Heat Source—M. V. Abramov, L. M. Avrakh, É. L. Lynkin, A. S. Voronin, B. M. Klinov, and A. F. Khmelevskii 709 40

Problem of Automating the Catalyst Circulation Process—I. E. Skorikov 712 42

SERVICE PROPERTIES OF FUELS AND OILS

Effect of Temperature on Life of Solid-Film Lubricants—L. N. Sentyurikhina, K. I. Klimov, Z. S. Rubtsova, and L. F. Rudakova 717 46

Basis for Allowable Deviation in Determination of Automotive Gasoline Octane Numbers —I. N. Danilov 722 51

FUEL AND OIL QUALITY EVALUATION METHODS

Determination of Small Quantities of Aromatic Hydrocarbons in Paraffinic-Naphthenic Concentrates—A. G. Siryuk and N. A. Filippova 726 55

Study of Contraction of Paraffin Waxes Based on Refractometric Data—A. N. Guseva and I. E. Leifman 728 57

INFORMATION

Second All-Union Scientific and Technical Conference on Oil Additives—I. G. Fuks 732 61

Second All-Union Rectification Conference—O. S. Chekhov and G. P. Solomakha 734 62

Number 11 November, 1966

New Frontiers for the Petroleum Refining and Petrochemical Industry—D. I. Nomkin 737 1
Centenary of the Scientific and Engineering Societies—N. V. Yakusheva and I. L. Chernyak 742 5

PETROLEUM AND GAS PROCESSING

Production of Aromatic Hydrocarbons from Kerosine—Gas Oil Fractions from Sulfur Crudes—A. S. Éigenson, A. A. Krichko, B. L. Kozik, S. V. Pestrikov, S. R. Mamina, Yu. F. Sokov, Z. D. Putilova, and V. V. Fryazinov 746 9
Removal of Acetylenic Hydrocarbons from Pyrogas via Amination—L. V. Talisman, R. G. Stepanov, and N. N. Ostankova 751 13
Hydrogen Concentration during Low-Pressure Hydrocracking—Ya. R. Katsobashvili and É. I. Élbert 754 16
Temperature for the Formation of Carbamide Complexes with Individual Normal C_6-C_{10} Alkanes and Their Binary Mixtures—V. A. Matishev 757 18
Augmentation of Raw Material Resources for Obtaining Aviation Oils—R. Sh. Kuliev, F. I. Samedova, G. T. Musaev, T. M. Bagirzade, É. K. Airapetova, and A. A. Ashrafov 763 22
Kinetics of Coke Formation during Cracking of Group Components of Petroleum Residue—M. E. Levinter, M. I. Medvedeva, G. M. Panchenkov, and G. I. Agapov 766 25
Establishment of Optimum Conditions for Petroleum Desalting—S. F. Moiseikov, V. E. Rakintseva, and V. K. Solodkov 770 28

ECONOMICS

Fuel Economy in the Refining and Petrochemical Industry—Ya. G. Sorkin 776 33
Network Planning in Major Overhauls of Technological Plant—A. F. Arslanov and V. E. Tishchenko 780 37

PETROLEUM REFINING EQUIPMENT

Design Calculations for Plate-Type Mass-Exchangers—V. V. Popov and L. M. Popova 782 40
Comparative Evaluation of Column Packings and Fractionating Ability of Various Laboratory Columns—A. K. Manovyan and D. A. Khachaturova 786 42

SERVICE PROPERTIES OF FUELS AND OILS

Applicability of Tetramethylhexathioadamantane as Lube Oil Additive—Ya. M. Slobodin and S. G. Rozenberg 792 47
Molybdenum Disulfide and Graphite—Fillers for Polyorganosiloxanes—R. I. Kobsova, E. M. Oparina, G. S. Tubyanskaya, and L. N. Sentyurikhina 795 50
New Dyes for Ethyl Fluid and Leaded Gasolines—E. I. Zabryanskii, A. A. Gureev, F. B. Ashbel, N. F. Ronzhina, and E. P. Sobolev 798 52

FUEL AND OIL QUALITY EVALUATION METHODS

Graphical-Analytical Method of Determining the Softening Point of Bitumen Mixtures—A. Yu. Lopatskii 802 55
Nomogram for the Determination of the Prandtl Number of Liquids in Equilibrium with Vapor—A. K. Chernyshev 805 57

INFORMATION

Developing High-Capacity Reactors for Important Chemical Processes—E. Ya. Barsukov 811 61
Scientific Conference at Odessa—L. P. Golovanova 813 62
Forthcoming Books for 1967 from the "Khimiya" Press 814 62

Number 12 December, 1966

PETROLEUM AND GAS PROCESSING

Optimum Conditions of Industrial Chemical-Technological Processes—A. P. Zinov'eva 815 1
Features of the Pyrolysis of Light Hydrocarbons in Industrial Furnaces—E. B. Frid and M. N. Frid . . 819 5
Some Possible Reasons for Contradictory Results in Investigations of Fractionation at Reduced Pressure—Ya. D. Zel'venskii, A. A. Titov, and V. A. Shalygin 824 10
Investigation of the Conversion Kinetics for Hydrocarbons in the Second State of the Vacuum Hydrocracking of Gas Oil—L. I. Osipov and V. A. Khavkin 829 14
Colloidal-Chemical Properties of Individual Sodium Alkylbenzosulfonates—O. S. Mochalova, R. M. Tomson, S. A. Nikitina, and S. I. Faingol'd 833 17
Selection and Preparation of a Raw Stock for Preparation of Butylsulfuric Acid—D. V. Mushchenko . 837 21
Adsorption and Selective Treatment of High-Viscosity Components of Tar—F. G. Khakimov, N. G. Kalantar, M. A. Zainetdinov, and L. V. Dunyushkina 840 24
Antioxidant Additives to Triethylene Glycol —L. Yu. Zhake, I. L. Gurevich, E. Yu. Éndeka, and E. I. Shcherbina 843 27
Use of Hydroxy Acids from Synthetic Fatty Acids Still Residue in Asphalt Production —I. M. Rudenskaya, and I. B. Gubenko 845 29
Profitability and Utilization of the Fixed Assets in the Oil-Refining Industry—Yu. M. Malyshev, A. F. Zimin, and N. S. Petrova 849 32
Effect of Entrained Liquid on the Efficiency of Completely Mixed Plates—I. A. Aleksandrov 855 37
Automatic Control of the Temperature near the Top of a Secondary Distillation Column —A. K. Eroshkin, M. L. Fedorovskii, and A. T. Pivovarov 862 42

SERVICE PROPERTIES OF FUELS AND OILS

Effect of Alkanes and Cyclanes on Thermal-Oxidative Stability of Jet Fuels—E. M. Bushueva, and I. E. Bespolov 865 44
Dielectric Strength and Electric Conductivity of Liquid Dielectrics Containing Water—M. V. Kurlin, A. A. Spirin, and Ya. M. Frankfurt 868 46

FUEL AND OIL QUALITY EVALUATION METHODS

Method of Determining Normal Paraffin and Olefin Hydrocarbons in Gasoline Diesel Fractions of Secondary Processes of Oil Refining—N. A. Okinshevich, E. N. Gurina, and B. T. Abaeva . 872 50
Method of Evaluating the Corrosive Properties of Fuels and the Effectiveness of Corrosion-Resistant Additives—E. S. Churshukov, A. A. Gureev, I. V. Rozhkov, and G. B. Shirokova . . . 876 54

INFORMATION

Conference on the Development and Utilization of Tomsk Oil and Gas—G. I. Kaz'min 880 57

ERRATA 882

INDEX

Author Index, Numbers 1-12, 1966 885
Table of Contents, Numbers 1-12, 1966 889